QUICK OIL CHANGE MACHINE

Mkt by ROCK ENGINES Pvt Ltd.

"OPERATIONAL MANUAL" of "Zero" Maintenance Machine

Rock Engines

ZERO MAINTENANCE , ECO FRIENDLY
"QUICK OIL Chamber Clean Machine".

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PATENT CERTIFICATE

क्रमांक : 022 4916
Sl. No. :

INTELLECTUAL PROPERTY INDIA

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
Patent Certificate
(Rule 74 of Patents Rules)

Patent No.	:	209933
Application No.	:	1251/MUM/2006
Date of Filing	:	08/08/2006
Patentee	:	MR. KISHOR CHHABRA

It is hereby certified that a patent has been granted to the patentee for an invention entitled OIL CHAMBER CLEANING MACHINE as disclosed in the above mentioned application for the term of 20 years from the 8 day of AUGUST 2006, in accordance with the provisions of the Patents Act,1970.

Date of Grant: 12/09/2007

Controller of Patents

A). *About Us :-*

(1) Rock Engines is the manufacturer of **patented** Quick Oil Change Machines which are invented to resolve, complete **oil generated problems** in all engines. **applicable to all vehicles (Bike, Car, Tractor, Bus, Truck, etc),** and it quickly drains out impure oil from Oil Chamber and also makes it free from carbon and emery, resulting in tremendous improvement in vehicles performance. It is a revolutionary system which **keeps your vehicle Healthy and Happy.**

(2) In **traditional method**, oil is drained out of vehicles chamber by opening drainage bolt, which **cannot drain used oil** completely and some amount of carbon & emery is always left stuck on the walls of oil chamber which then dissolves in fresh oil and **contaminate** it from day one.
Machine with its vacuum technology, not only drains complete used oil but also sucks all left over carbon and emery from oil chamber of all vehicles, thus providing **an added advantage** over traditional method of oil Change.

(3) Even if **Oil change** for **50-60 vehicles** is done in a single day, only **10 Rs. Electricity** is consumed by this **machine**. And also by **changing** just **oil** for **10 vehicles per day** machine price can be **recovered within a month only**, as you can **earn Rs. 600 on fresh oil and Rs. 300 by selling black oil** in open market where it is used as burning fuel.

(4) We **have successfully launched around 4000 machine** across India at Indian Oil , Bharat Petroleum ,Hindustan Petroleum ,Essar Retail Outlets and Lube Shops of Castrol,Petronus,Elf,Veedol,Penzol.

(5) The oil change with machine is an additional service, provided to your valuable customers & is **well understood, appreciated and accepted** by every **customer all over India,** as customer can see carbon, emery thrown out of their vehicle in front of their eyes which create faith in them.

(7) Contact Us:

Contact Address: Rock Engines Pvt. Ltd.,
Near Punjab Petrol Pump,
Railway Station Road,
Ujjain (MP)– 456001 INDIA

Contact Number:

- **For New Machine Orders.**
  08109072228.094253-32400

- **Helpline, Take Care & Transit of Machine.**
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B). MACHINE PARTS DESCRIPTION:

Technical Specifications:

item	Specification	usage
Hermetic Compressor	220 volt , Frequency 50 HZ	Generate vacuum pressure in MS cylinder .
Digital ampere meter	0 to 1 Amp	Shows electrical consumption
Electric Consumption	During Running consumes only 5 Amp Current	also can run on inverter as consumes very less electricity.
Vacuum pressure Meter	20 CMHG	Initially takes One min 30 seconds to Generate vacuum in MS Tank of 25 lts capacity, then vacuum can be tapped in advance for any number of oil change.
Dimensions of Machine	Ht. 40" Width 16" Depth 13"	Sleek
Weight of machine	32 kg	Portable
weight of Ramp	20 kg	Ramp to keep vehicle at height during oil change process.
MS Machine Stand with wheels	5 kg	To keep machine at height
MS Cylinder Tank	25 liter capacity	To collect waste oil and stores vacuum.

Compiles of Parts	Compressor, Vacuum Meter, Ampere Meter, Suction valve, sensors, indicator, PVC wire base Suction Pipe, ramp.	All Parts “Best Branded Quality “so does not require any replacement or replacement.
Glass Jar	3 liter ,Make Yera	To let customer see in transparent jar all impurities with used black oil being extracted.
Suction Pipe:	PVC wired pipe	used for suction of waste oil from the vehicle with vacumm pressure.
Wheels	4 MS Wheels	Machine mobility

Availibliy OF spare parts in Bazaar:

1. **Glass Jars**:.Model no. Deluxe 120 available at any local Yera dealer.
2. **Vaccum Meter, Wheels, Suction Valve**: Available at any Hardware shop.
3. **Attachment, Rubber Caps**: Can be sent by corrier , have long life.
4. **Compressure** make LG at LG service center.

List of Accesorries given with Machine:

1. Spanners Kit.
2. Stenile Attachments for all vehicles.
3. Promotional Material .
4 Operational Demo Video cd .

C). SALIENT FEATURES:Model B324 & B322HMV

B-324 Swipe Model	B-322 HMV Model
• Sleek, Compact & Elegant look. • Sensors and Indicators alerting used oil tank full and automatic switching off machine. • Indicators alerting used oil tank full . • Horizontal MS Cylinder. • Hermetic Compressor. • provision of Suction from top & Bottom also. . • . Buzzer alarm on tank full. . Transparent glass jar positioned in center at Eye level. Allowing every customer to view the quantity of oil extracted from the vehicle • Measuring scale allows customer to view the quantity of oil extracted from customers vehicle .Vacuum stored in advance	• Specially Designed with Heavy Duty Compressor with more power Generate quick vacuum in less time for heavy HMV vehicle as Tractors, Truck , Bus • Sleek, Compact & Elegant look. • Sensors and Indicators alerting used oil tank full and automatic switching off machine. • Vertical MS Cylinder for sleek look. • provision of Suction from top & Bottom also. . • Buzzer alarm on tank full. • Auto cut off if excess \ low voltage. • Transparent glass jar positioned in center at Eye level. Allowing every customer to view the quantity of oil extracted from the vehicle. • Tropical Compressor. • Measuring scale allows customer to view the quantity of oil extracted from customers vehicle • Vacuum stored in advance

D). Benefits over Traditional Method

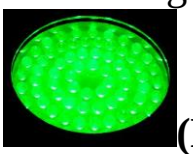
- Machine with its **vacuum technology** drains out more used oil as compared to without machine.
- This is a **Zero Maintenance machine**, even if machine runs continuously for whole day or even if you change 50-60 vehicles oil continuously, **electricity for only Rs.10 will be consumed**, besides this there is no further running and **no maintenance cost, for years to come**.
- Quick Oil Change and **cleans** oil chamber within **5 minutes**.
- **Fewer spills--less mess.**
- **Value added service** to customer.
- You earn and **Customer Delighted** & delighted customers **act as a magnet.**

- **Eco-friendly reduces pollution**.
- **Quick Connect** to vehicles.
- **Less wear on engine.**
- It **ambivertly reduces** your **labor time and costs** both.
- Engine gets a **"Hot Start".**
- The **cost** is well **recovered** with in a **month** and you continue to earn for years to come.

E). MACHINE OPERATION :-

- ***Make it Ready for Oil Change:***

(1) Turn ON the **Power switch** and **L.E.D. indicator will** glow.

(POWER SWTICH)  **(LED)**

☛ **Caution**: Do not run machine if voltage fluctuation is more.

(2) The needle of **Ampere Meter** will go upto **6 amp** and again come down and **stays between 0 to 1 Ampere** (indicating very low power consumption).

(3) The **Vacuum meter** needle goes from 0 to 650+ (let it go to maximum,"700+") that shows the vacuum has been completely created in all the containers and the machine is ready for oil change.

☛ **Caution:** Let all **four Suction Valve** be closed when the vacuum is being created and all clips tightened.

- **How to Operate :**

Suction Process from Top of Oil Chamber:-

First make the machine ready for Oil-change as described above.
In few two wheelers (like hero Honda) where engine is not in the oil chamber**,** **Suction from top** of Oil Chamber can also be done. For this open the Oil filler Cap, then insert the blue suction pipe **attachment from top** till bottom of the oil

chamber and open the **Suction Valve 1** by twisting it half turn, and then the vacuum pressure **mtr 1** will move down from 700 till 0.

Suction Process from Bottom of Oil Chamber:-

After completing the suction process from top, close the Suction Valve no. 1 and take out the pipe attachment from oil chamber and tighten the oil filler cap and get ready for repeating the same process from bottom of oil chamber.

This time first open the **Suction Valve no.2 for 10 sec. and again close it (This will immediate create vacuum in vacuum meter 1). Fix the Silicon Attachment** as per vehicle requirement as mentioned in chart at the starting of **Suction pipe.**

Now open the oil chamber bolt with spanner (located below the oil chamber of vehicle) and then immediately insert the attachment into Oil Chamber, from bottom, without letting the oil fall, open the **Suction Valve no. 1** by twisting it half turn, and then the vacuum pressure needle of **meter 1** will move down till 0 and used oil will be sucked from oil chamber then close the suction valve no. 1 "but let machine be On". Slightly tilt the two wheeler once both sides Store the vacuum till 700+ in advances and let the machine be ready in advance for next oil change**.**

(5) After completion of oil suction process (the second time also), close all Suction Valves and pull down the attachment from bottom of oil chamber and tighten the oil chamber bolt of the vehicles.

(6) Take oil-cane, open the seal in front of the customer then refill the oil chamber from top with fresh oil and close the oil filler cap of oil chamber.

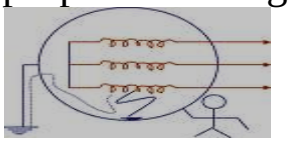
(**7**) The waste Oil will first enter in the Jar no.1 and then it will automatically be transferred in the **MS cylinder.**

- ***How to drain impure Oil from the waste oil collecting M.S. Cylinder***

(8) Switch-off the machine, release vacuum by opening the suction Valve no. 3 and no. 4 and then remove used oil from the drainage pipe attached at the backside of the MS Cylinder.

(9) After draining the black oil again close all the suction valves start the machine and Store the vacuum till 700+in advance and let the machine be ready in advance for next oil change **and then turn off the machine.**

H). Take Care:

- Make sure the machine has proper earthling, constant 220 volts input, and attached with 6 Ampere MCB. 
- Suction valve to be kept in OFF position during generating vacuum.
- Daily take out collected used oil from MS oil cylinder, when filled more than 20 litres or Red indicator light glows indicating machine inbuilt waste oil Tank Full..
- After Oil change process is complete let the machine remain ON, close the suction valve, and again let the vacuum is created, put OFF the machine when vacuum meter shows 650+. Keep this vacuum stored in advance for next oil change.
- Ensure that there is no leakage from PVC pipe joints, all joints are tightened.
- For Better Vacuum, empty the MS cylinder when it is 20 liters filled.
- Always restart the machine after a gap of two minutes.
- Relay put at the compressor may be damaged due to voltage fluctuation and can be easily replaced by any Refrigerator Electrician.
- Keep a semi trained mechanic to open bolt of oil chamber as it should not be tightened much as vehicles have aluminum body.
- Keep away from direct Sunlight and always position the machine Upright.

I). MARKETING STRATEGY

Perfect launching provides you best customer & best customer provides you absolute results.

(1) Road Show:

(2) Attractive Schemes: Give discount of ½ liter petrol for 15 days to attract customer and make aware of Oil change concept with machine.

(3) Hire a efficient sales person for a month on incentive basis **(**i.e. black oil can be given to him which is sold in open market for Rs.20 a liter for burning fuel), who can explain the benefits of oil change with machine, pay him good salary.

(4) Placing a **self explanatory banner of machine's benefit** at your **retail outlet**, this is easily understandable to customers.

(5) Campaigning should be organized to **invite new customer** by putting **kiosk, tent and mike** with **additional sales person. Providing innovative services as oiling of joints , spark plug cleaning , air filter clean ,dusting of four wheelers from inside by blower , headlight focus setting.**

J). Approach to Customers :-

(1) Invite the customer for oil check & suggest them to get oil check and Change as lube co guide line.

(2) Show customer the oil condition and highlight the benefits of oil change by the use of oil change machine against manual traditional method.

(3) Surely he'll get convinced for getting the oil change done by oil change machine.

(4) Definitely he becomes a permanent satisfied customer and will always get the oil change done through machine.